First Named Inventor	Yonjun Jeff Hu	
Serial No.	Unknown	INFORMATION
Filing Date	Filed herewith	DISCLOSURE
Group Art Unit	Unknown	STATEMENT
Examiner Name	Unknown	
Attorney Docket No.	400.084US02	
Title: AGGLOMERAT	ION CONTROL USING I	EARLY TRANSISTION METAL ALLOYS

Mail Stop: Patent Application Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

In compliance with 37 C.F.R. §§ 1.56 and 1.97, et seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified Application. Applicant respectfully requests that this Information Disclosure Statement be entered and the references listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to MPEP §609, Applicant further requests that the Examiner initial next to each reference on the Form 1449 to indicate that the listed references have been considered. Applicant further requests that a copy of the initialed Form 1449 be returned with the next official communication.

Further pursuant to MPEP §609, because all of the references listed on the attached Form 1449 have been previously submitted and made of record in the parent application, U.S. Patent Application 09/896,093, filed June 28, 2001, copies of the references previously made of record in the parent application are not submitted herewith.

If the Examiner has any questions or concerns regarding this application, please contact the undersigned at the number listed below.

Respectfully submitted,

Date: (72-27-2004)

Tod A. Myrum Reg. No. 42,869

Attorneys for Applicant Leffert Jay & Polglaze, P.A. P.O. Box 581009 Minneapolis, MN 55458-1009

T - 612/312-2200 F - 612/312-2250

First Named Inventor	Yonjun Jeff Hu	
Serial No.	Unknown	COMMUNICATION
Filing Date	Herewith	REGARDING DIVISIONAL
Group Art Unit	Unknown	<u>APPLICATION</u>
Examiner Name	Unknown	
Attorney Docket No.	400.084US02	
Title: AGGOLMERAT ALLOYS	ION CONTROL USING	EARLY TRANSISITION METAL

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Prior to taking the above-entitled patent application under examination, please review the following comments:

COMMENTS

This is a divisional application of U.S. Patent Application Serial No. 09/896,093 (the '093 application), titled AGGOLMERATION CONTROL USING EARLY TRANSISITION METAL ALLOYS, filed June 28, 2001 (pending). The '093 application was subjected to a Restriction Requirement by Examiner Trung Q. Dang in the Office Action mailed May 6, 2003. Non-elected claims 91-144 of the '093 application are respectively claims 1-54 of the present divisional application.

The specification has been amended to add a cross reference to the '093 application and to conform the Summary to the claims. Formal drawings are submitted.

If the Examiner has any questions or concerns regarding this application, please contact the undersigned at 612 312-2208.

Respectfully submitted,

Date: 02-27-2004

Reg. No. 42,922

Attorneys for Applicant Leffert Jay & Polglaze, P.A. P.O. Box 581009 Minneapolis, MN 55458-1009 T 612 312-2200 F 612 312-2250

First Named Inventor	Yonjun Jeff Hu
Serial No.	Unknown
Filing Date	Herewith
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket No.	400.084US02

INFORMATION DISCLOSURE STATEMENT FORM PTO-1449

Title: AGGLOMERATION CONTROL USING EARLY TRANSITION METAL ALLOYS

		U.S. Pa	tent References	
Examiner Initials	Patent No.	Issue Date	Name	Filing Date
	4,441,964	04-10-1984	Mikkers et al.	01-21-1983
	4,985,750	01-15-1991	Hoshino	09-17-1987
,	5,118,661	06-02-1992	Maeda	11-20-1990
	5,744,394	04-28-1998	Iguchi et al.	04-23-1997
·	5,786,269	07-28-1998	Murakami et al.	09-02-1996
	5,391,517	02-21-1995	Gelatos et al.	09-13-1993
	5,980,977	11-09-1999	Deng et al.	12-09-1996
	5,990,011	11-23-1999	McTeer	09-18-1997
	6,001,461	12-14-1999	Toyoda et al.	12-19-1996
	6,084,302	07-04-2000	Sandhu	12-26-1995
	6,126,989	10-03-2000	Robinson et al.	08-26-1998
	6,133,139	10-17-2000	Dalal et al.	10-08-1997
	6,165,555	12-26-2000	Jun et al.	07-21-1998
0	6,194,108B1	02-27-2001	Akutsu et al.	10-06-1997
	6,194,315B1	02-27-2001	Hu et al.	04-16-1999
•	6,258,710B1	07-10-2001	Rathore et al.	12-10-1999

	* 5/*4 no. 0	A 19201	Foreign	Patent References	2000		130
Examiner	Foreign Pa	tent		Name		Publication Date	T?
Initials	Country	No.					
					-		

Examiner Initials	Author, Title, Date, Pages, etc.
	De Boer et al., "Cohesion in Metals: Transition Metal Alloys", 1988, Amsterdam, North Holland-Elsevier Science, pp. preface-101, 105-142, 339-381, 495-535
	Subramanian et al., "Binary Alloy Phase Diagrams", 1990, Volume I, pp. 51-52, 88, 90,113-115, 1416, 1418-1419, 1428-1429, 1494-1496, 1473-1475, 1505-1506, 1511-1513
	Wang et al., "Binary Cu-alloy layers for Cu-interconnections reliability improvement" IEEE International Proceedings on Interconnect Technology Conference, 4-6 June 2001, pp 86-88
	Nogami et al., "Characterization of the Cu/Barrier Metal Interface for Copper Interconnects", IEEE International Proceedings on Interconnect Technology Conference, 1-3 June 1998, pp 298-300

Examiner	Date			
Signature	Considered			
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not				